## PLANT SCIENCE (PLNT)

### PLNT 1101 Orientation to Plant and Soil Sciences
**Description:** Introduction to areas of study, professional activities and career opportunities in plant and soil sciences.

- **Credit hours:** 1
- **Contact hours:** Lecture: 1 Contact: 1
- **Levels:** Undergraduate
- **Schedule types:** Lecture
- **Department/School:** Plant & Soil Sciences

### PLNT 1213 Introduction to Plant and Soil Systems
**Description:** Introduction to the concepts of plant and soil systems including cropland, rangeland and pastureland. A systems approach to the importance of plant and soil resources to the producer, consumer and citizen; modern management and production practices; maintenance of natural resources. Previously offered as AGRN 1213.

- **Credit hours:** 3
- **Contact hours:** Lecture: 3 Contact: 3
- **Levels:** Undergraduate
- **Schedule types:** Lecture
- **Department/School:** Plant & Soil Sciences

### PLNT 2011 Agronomic Problem Solving
**Prerequisites:** PLNT 1213 or HORT 1013 or PBIO 1404 and MATH 1513 or Instructor Permission.

**Description:** Practical solutions to common agronomic and soil science issues.

- **Credit hours:** 1
- **Contact hours:** Lecture: 2 Contact: 2
- **Levels:** Undergraduate
- **Schedule types:** Lab
- **Department/School:** Plant & Soil Sciences

### PLNT 2013 Applied Plant Science
**Prerequisites:** PLNT 1213 or BOT 1404 or FOR 1123 or HORT 1013.

**Description:** Application of agronomic principles to the management, improvement and use of plants. Structure and growth of crop plants relating to management strategies and adaptation to varying abiotic and biotic factors; application of tools and techniques. Previously offered as PLNT 3113 and herbicide damage identification. Previously offered as PLNT 3113.

- **Credit hours:** 3
- **Contact hours:** Lecture: 2 Lab: 2 Contact: 4
- **Levels:** Undergraduate
- **Schedule types:** Lab, Lecture, Combined lecture and lab
- **Department/School:** Plant & Soil Sciences

### PLNT 2041 Career Development in Plant and Soil Sciences
**Prerequisites:** Sophomore standing in plant and soil sciences.

**Description:** Develop professional skills, learn about career development resources, and understand the steps of the application and interview process. Engage industry professionals to learn about experiences and viewpoints regarding the job market. Identify career path, develop action plan to meet job requirements and gain basic understanding of personal financial management. Previously offered as AGRN 2041.

- **Credit hours:** 1
- **Contact hours:** Lecture: 1 Contact: 1
- **Levels:** Undergraduate
- **Schedule types:** Lecture
- **Department/School:** Plant & Soil Sciences

### PLNT 3011 Crops of Oklahoma
**Prerequisites:** PLNT 1213.

**Description:** Production, distribution, classification, utilization, and current issues or improvements of major crops in Oklahoma. This course includes, but is not limited to, wheat, soybean, sorghum, corn, peanuts, cotton, sunflowers, and Bermuda grass.

- **Credit hours:** 1
- **Contact hours:** Lecture: 1 Contact: 1
- **Levels:** Undergraduate
- **Schedule types:** Lecture
- **Department/School:** Plant & Soil Sciences

### PLNT 3554 Plant Genetics and Biotechnology
**Prerequisites:** BIOL 1114.

**Description:** Basic principles of heredity. Interrelationship between classical genetics and molecular genetics emphasized. Mendelian genetics, cytogenetics, mutations, gene regulation and genetic engineering. Previously offered as AGRN 3554.

- **Credit hours:** 4
- **Contact hours:** Lecture: 3 Lab: 2 Contact: 5
- **Levels:** Undergraduate
- **Schedule types:** Lab, Lecture, Combined lecture and lab
- **Department/School:** Plant & Soil Sciences

### PLNT 3790 Seed and Plant Identification
**Prerequisites:** PLNT 1213.

**Description:** Identification and classification of agronomically important crop and weed species from seed and from seedling, vegetative, flowering or mature plants. Offered for fixed credit, 1 credit hours, maximum of 2 credit hours.

- **Credit hours:** 1
- **Contact hours:** Contact: 1 Other: 1
- **Levels:** Undergraduate
- **Schedule types:** Independent Study
- **Department/School:** Plant & Soil Sciences

### PLNT 4013 Principles of Weed Science
**Prerequisites:** PLNT 1213 or HORT 1013.

**Description:** Basic principles of weed biology and ecology, introduction to herbicide chemistry, and methods for preventative, cultural, mechanical, chemical, and biological weed management in cropping systems, turf, and natural landscapes. Laboratories are applied and will include weed identification, calibration of field equipment, applied grower problems, and herbicide damage identification. Previously offered as PLNT 3113 and PLNT 3211. May not be used for Degree Credit with PLNT 5013.

- **Credit hours:** 3
- **Contact hours:** Lecture: 2 Lab: 2 Contact: 4
- **Levels:** Undergraduate
- **Schedule types:** Lab, Lecture, Combined lecture and lab
- **Department/School:** Plant & Soil Sciences

### PLNT 4033 Applied Agricultural Meteorology
**Prerequisites:** PLNT 1213 and SOIL 2124.

**Description:** Fundamental meteorology concepts in field-scale setting. Drivers of climate and weather and the assessment of the impacts of climate and weather on agricultural systems. Integration of weather and climate information into the process of formulating sound, data-based decisions related to various agricultural operations.

- **Credit hours:** 3
- **Contact hours:** Lecture: 3 Contact: 3
- **Levels:** Undergraduate
- **Schedule types:** Lecture
- **Department/School:** Plant & Soil Sciences

### PLNT 5013 Principles of Weed Science
**Prerequisites:** PLNT 1213 or HORT 1013.

**Description:** Basic principles of weed biology and ecology, introduction to herbicide chemistry, and methods for preventative, cultural, mechanical, chemical, and biological weed management in cropping systems, turf, and natural landscapes. Laboratories are applied and will include weed identification, calibration of field equipment, applied grower problems, and herbicide damage identification. Previously offered as PLNT 3113 and PLNT 3211. May not be used for Degree Credit with PLNT 5013.

- **Credit hours:** 3
- **Contact hours:** Lecture: 2 Lab: 2 Contact: 4
- **Levels:** Undergraduate
- **Schedule types:** Lab, Lecture, Combined lecture and lab
- **Department/School:** Plant & Soil Sciences
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Description</th>
<th>Credit hours</th>
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<tbody>
<tr>
<td>PLNT 4080</td>
<td>Professional Internship</td>
<td>Consent of instructor.</td>
<td>Internship must be at an approved agribusiness unit or other agency serving agronomic agriculture. Requires a final conference with a campus adviser and a written report. Previously offered as AGRN 4080. Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.</td>
<td>1-6</td>
<td>1-6 Other</td>
<td>Independent Study</td>
<td>Plant &amp; Soil Sciences</td>
</tr>
<tr>
<td>PLNT 4113</td>
<td>Advanced Weed Science</td>
<td>PLNT 3111 and PLNT 3221.</td>
<td>Integrated approach for weed management. Weed life cycles and biology, weed crop interferences, herbicide families and their characteristics, and finally a systematic and integrated weed management system. Methods of conducting and interpreting research results in appropriate topics. Previously offered as AGRN 4113.</td>
<td>3</td>
<td>3</td>
<td>Lecture</td>
<td>Plant &amp; Soil Sciences</td>
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<tr>
<td>PLNT 4123</td>
<td>Plant-Environment Interactions</td>
<td>PBIO 1404.</td>
<td>Environmental impact on plant life cycle; (i.e. germination, flowering and senescence); plant growth responses (e.g. photosynthesis, phototropism, biomass production) to light quality, precipitation, temperature, and population or community changes. Previously offered as AGRN 4123. May not be used for Degree Credit with PLNT 5123.</td>
<td>3</td>
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<td>Lecture</td>
<td>Plant &amp; Soil Sciences</td>
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<tr>
<td>PLNT 4133</td>
<td>Temperature Stress Physiology</td>
<td>BIOL 3653 and BOT 3463 or HORT 4963.</td>
<td>Effects of heat, chilling and freezing stress on plants. Responses to temperature extremes at the molecular to whole plant levels with emphasis on mechanisms of injury and resistance. Same course as HORT 4133. Offered in combination with HORT 5133 and PLNT 5133. May not be used for degree credit with HORT 5133 and PLNT 5133.</td>
<td>3</td>
<td>3</td>
<td>Lecture</td>
<td>Plant &amp; Soil Sciences</td>
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<tr>
<td>PLNT 4443</td>
<td>Cropping Systems</td>
<td>PLNT 3111 or PLNT 3221.</td>
<td>Understand production and management practices for potential bioenergy feedstocks. Distinguish feedstock sources and end products. Identify physiological mechanisms to improve yield and quality under current and future climates. Use simulation and GIS tools to project biomass and ethanol yields. May not be used for Degree Credit with PLNT 5543.</td>
<td>3</td>
<td>3</td>
<td>Lecture</td>
<td>Plant &amp; Soil Sciences</td>
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<tr>
<td>PLNT 4443</td>
<td>Cropping Systems</td>
<td>Consent of instructor.</td>
<td>Problems in plant science selected from topics in range and turf, plant breeding and genetics, crop management and physiology, and weed control. Previously offered as AGRN 4470. Offered for variable credit, 1-3 credit hours, maximum of 12 credit hours.</td>
<td>1-3</td>
<td>1-3 Other</td>
<td>Lecture</td>
<td>Plant &amp; Soil Sciences</td>
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<tr>
<td>PLNT 4543</td>
<td>Cropping Systems</td>
<td>PLNT 1213 or HORT 1013 or BOT 1404; PLNT 2013.</td>
<td>Principles of developing and managing cropping systems in the Great Plains for the efficient use and conservation of soil and water resources while promoting yield, managing soil fertility, and effectively controlling pests. May not be used for degree credit with PLNT 5543.</td>
<td>3</td>
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<td>Lecture</td>
<td>Plant &amp; Soil Sciences</td>
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<tr>
<td>PLNT 4571</td>
<td>Professional Preparation in Plant and Soil Sciences</td>
<td>Senior standing in plant and soil sciences.</td>
<td>Preparation for professional certification exams and career opportunities in plant and soil sciences. Same course as SOIL 4571. Previously offered as AGRN 4571.</td>
<td>1</td>
<td>1</td>
<td>Lecture</td>
<td>Plant &amp; Soil Sciences</td>
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<tr>
<td>PLNT 4573</td>
<td>Bioenergy Feedstock Production</td>
<td>PLNT 1213.</td>
<td>Understand production and management practices for potential bioenergy feedstocks. Distinguish feedstock sources and end products. Identify physiological mechanisms to improve yield and quality under current and future climates. Use simulation and GIS tools to project biomass and ethanol yields. May not be used for Degree Credit with PLNT 5573.</td>
<td>3</td>
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<td>Lecture</td>
<td>Plant &amp; Soil Sciences</td>
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PLNT 4923 Applications of Biotechnology in Pest Management  
**Prerequisites:** BIOL 1114 and CHEM 1215 or equivalents.  
**Description:** Applications of biotechnology in managing arthropod pests of plants, animals, plant pathogens, and weeds. Introduction to underlying technology, products being developed and deployed, effectiveness and associated problems or concerns resulting from their use. Same course as ENTO 4923, PLP 4923, and PLNT 4922. May not be used for Degree Credit with PLNT 5923.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Undergraduate  
**Schedule types:** Lecture  
**Department/School:** Plant & Soil Sciences

PLNT 4933 Plant Biotechnology and Transgenic Plants  
**Prerequisites:** PLNT 3554 or ANSI 3423 or BIOL 3023.  
**Description:** Principles and techniques in generating transgenic plants with improved agronomic traits. Controversies and consumer concerns over transgenic plants, biotechnology regulations and global status of biotech crops. Basic plant biotechnology techniques in recombinant DNA cloning, transformation, and tissue culture. May not be used for Degree Credit with PLNT 5933.  
**Credit hours:** 3  
**Contact hours:** Lecture: 2 Lab: 2 Contact: 4  
**Levels:** Undergraduate  
**Schedule types:** Lab, Lecture, Combined lecture and lab  
**Department/School:** Plant & Soil Sciences

PLNT 4990 Senior Thesis in Plant and Soil Sciences  
**Prerequisites:** Consent of instructor.  
**Description:** Supervised undergraduate research in topics related to plant and soil sciences. Completion of an approved research project based on a thesis topic in plant or soil science will include submission of a written report and a public defense of the work. Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.  
**Credit hours:** 1-6  
**Contact hours:** Contact: 1-6 Other: 1-6  
**Levels:** Undergraduate  
**Schedule types:** Independent Study  
**Department/School:** Plant & Soil Sciences

PLNT 5000 Master's Thesis  
**Prerequisites:** Consent of advisor.  
**Description:** Research planned, conducted and reported in consultation with a major professor. Offered for variable credit, 1-6 credit hours, maximum of 6 credit hours.  
**Credit hours:** 1-6  
**Contact hours:** Contact: 1-6 Other: 1-6  
**Levels:** Graduate  
**Schedule types:** Independent Study  
**Department/School:** Plant & Soil Sciences

PLNT 5013 Principles of Weed Science  
**Prerequisites:** PLNT 1213 or HORT 1013.  
**Description:** Basic principles of weed biology and ecology, introduction to herbicide chemistry, and methods for preventative, cultural, mechanical, and biological weed management in cropping systems, turf, and natural landscapes. Laboratories are applied and will include weed identification, calibration of field equipment, applied grower problems, and herbicide damage identification. May not be used for degree credit with PLNT 4013.  
**Credit hours:** 3  
**Contact hours:** Lecture: 2 Lab: 2 Contact: 4  
**Levels:** Graduate  
**Schedule types:** Lab, Lecture, Combined lecture and lab  
**Department/School:** Plant & Soil Sciences

PLNT 5020 Graduate Seminar  
**Prerequisites:** Graduate standing.  
**Description:** Discussions of research philosophy, methods, interpretation and presentations. Profession development and contributions to the scientific community. Same course as SOIL 5020. Offered for fixed credit, 1 credit hour, maximum of 3 credit hours.  
**Credit hours:** 1  
**Contact hours:** Contact: 1 Other: 1  
**Levels:** Graduate  
**Schedule types:** Independent Study  
**Department/School:** Plant & Soil Sciences

PLNT 5103 Problems and Special Study  
**Prerequisites:** Consent of instructor.  
**Description:** Supervised study of special problems and topics not covered in other graduate courses. Previously offered as AGRN 5110. Offered for variable credit, 1-4 credit hours, maximum of 12 credit hours.  
**Credit hours:** 1-4  
**Contact hours:** Contact: 1-4 Other: 1-4  
**Levels:** Graduate  
**Schedule types:** Independent Study  
**Department/School:** Plant & Soil Sciences

PLNT 5113 Advanced Weed Science  
**Description:** Integrated approach for weed management. Weed life cycles and biology, weed crop interferences, herbicide families and their characteristics, and finally a systematic and integrated weed management system. Methods of conducting and interpreting research results in appropriate topics. Previously offered as AGRN 4113. May not be used for degree credit with PLNT 4113.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
**Department/School:** Plant & Soil Sciences

PLNT 5123 Plant-Environment Interactions  
**Prerequisites:** PBIO 1404.  
**Description:** Environmental impact on plant life cycle; (i.e. germination, flowering and senescence); plant growth responses (e.g. photosynthesis, phototropism, biomass production) to light quality, precipitation, temperature, and population or community changes. May not be used for degree credit with PLNT 4123.  
**Credit hours:** 3  
**Contact hours:** Lecture: 3 Contact: 3  
**Levels:** Graduate  
**Schedule types:** Lecture  
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<td>PLNT 3554 or BIOL 3023</td>
<td>Effects of heat, chilling and freezing stress on plants. Responses to temperature extremes at the molecular to whole plant levels with emphasis on mechanisms of injury and resistance. Same course as HORT 5133. Offered in combination with HORT 4133 and PLNT 4133. May not be used for degree credit with HORT 4133 and PLNT 4133.</td>
<td>3</td>
<td>3</td>
<td>Graduate</td>
<td>Lecture</td>
<td>Plant &amp; Soil Sciences</td>
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<tr>
<td>PLNT 5230</td>
<td>Research</td>
<td>Consent of a faculty member supervising the research</td>
<td>Supervised independent research on selected topics. Offered for variable credit, 1-4 credit hours, maximum of 8 credit hours.</td>
<td>1-4</td>
<td>Contact: 1-4</td>
<td>Graduate</td>
<td>Lecture</td>
<td>Plant &amp; Soil Sciences</td>
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<tr>
<td>PLNT 5293</td>
<td>Plant Response to Water Stress</td>
<td>BIOC 3653, BOT 3463</td>
<td>Physiological ramifications of water deficit stress on cells, tissues, plants and canopies. Discussion of the soil/plant/atmosphere continuum, and avoidance and tolerance mechanisms leading to drought resistance. Photosynthesis, transpiration, and water-use efficiency and their relationship to biomass accumulation and crop yield. Previously offered as AGRN 5293.</td>
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<td>3</td>
<td>Graduate</td>
<td>Lecture</td>
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<tr>
<td>PLNT 5313</td>
<td>Simulation Models in Research, Management and Policy</td>
<td>PLNT 1213</td>
<td>Use crop simulation models (CSM) and decision support systems to address challenges associated with food, fuel, feed and fiber production. Evaluate CSM as research, management, and policy tools.</td>
<td>3</td>
<td>3</td>
<td>Graduate</td>
<td>Lecture</td>
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<tr>
<td>PLNT 5353</td>
<td>Plant Breeding</td>
<td>PLNT 3554 or equivalent</td>
<td>Basic principles dealing with the improvement of plants through application of genetic principles. May not be used for degree credit with PLNT 4353.</td>
<td>3</td>
<td>3</td>
<td>Graduate</td>
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<tr>
<td>PLNT 5403</td>
<td>Physiological Action of Herbicides</td>
<td>BOT 3463</td>
<td>The mode of action, uptake and translocation, and metabolism of herbicides in crops and weeds. Previously offered as AGRN 5403.</td>
<td>3</td>
<td>3</td>
<td>Graduate</td>
<td>Lecture</td>
<td>Plant &amp; Soil Sciences</td>
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<tr>
<td>PLNT 5412</td>
<td>Plant Breeding Methods</td>
<td>PLNT 3554 or PLNT 4353 or consent of instructor</td>
<td>Development and application of genetic principles to breeding methodology of self- and cross-pollinated crops; emphasis on selection methods pertinent to plant improvement; methods of new cultivar development, release, and commercialization. Previously offered as PLNT 5414.</td>
<td>2</td>
<td>2</td>
<td>Graduate</td>
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<tr>
<td>PLNT 5413</td>
<td>Data Science for Agriculture and Natural Resources</td>
<td>PLNT 3554, PLNT 4353, and BIOL 3014 or consent of instructor</td>
<td>Data science principles and skills in the context of agricultural and natural resources research. Topics include data capture, quality control, data manipulation, visualization, reproducible analysis, and communication of results. Emphasis on workflows and analytical techniques tailored for agricultural and natural resource management research.</td>
<td>3</td>
<td>3</td>
<td>Graduate</td>
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<tr>
<td>PLNT 5433</td>
<td>Biotechnology in Plant Improvement</td>
<td>PLNT 3554, PLNT 4353, and BIOL 3014 or consent of instructor</td>
<td>Use and application of genomic knowledge and technology to improve agriculturally important plants. Emphasis on genetic systems which influence productivity and end-product utilization. The integration of biotechnology into plant breeding programs and issues concerning the release of genetically engineered organisms into the environment. Previously offered as AGRN 5433.</td>
<td>3</td>
<td>3</td>
<td>Graduate</td>
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<tr>
<td>PLNT 5453</td>
<td>Applied Plant Genomics</td>
<td>PLNT 3554 or BIOL 3023</td>
<td>Use and application of genomic knowledge and technology to improve agriculturally important plants. Major topics include structural and comparative genomics and their application in molecular breeding of agronomic crops.</td>
<td>3</td>
<td>3</td>
<td>Graduate</td>
<td>Lecture</td>
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</table>
PLNT 5543 Cropping Systems
Description: Principles of developing and managing cropping systems in the Great Plains for the efficient use and conservation of soil and water resources while promoting yield, managing soil fertility, and effectively controlling pests. May not be used for degree credit with PLNT 4543.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Plant & Soil Sciences

PLNT 5573 Bioenergy Feedstock Production
Prerequisites: PLNT 1213.
Description: Understand production and management practices for potential bioenergy feedstocks. Distinguish feedstock sources and end products. Identify physiological mechanisms to improve yield and quality under current and future climates. Use simulation and GIS tools to project biomass and ethanol yields. May not be used for degree credit with PLNT 4573.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Plant & Soil Sciences

PLNT 5923 Applications of Biotechnology in Pest Management
Prerequisites: BIOL 1114 and CHEM 1215 or equivalents.
Description: Applications of biotechnology in managing arthropod pests of plants, animals, plant pathogens, and weeds. Introduction to underlying technology, products being developed and deployed, effectiveness and associated problems or concerns resulting from their use. May not be used for degree credit with PLNT 4923.
Credit hours: 3
Contact hours: Lecture: 3 Contact: 3
Levels: Graduate
Schedule types: Lecture
Department/School: Plant & Soil Sciences

PLNT 5933 Plant Biotechnology and Transgenic Plants
Prerequisites: PLNT 3554 or ANSI 3423 or BIOL 3023.
Description: Principles and techniques in generating transgenic plants with improved agronomic traits. Controversies and consumer concerns over transgenic plants, biotechnology regulations and global status of biotech crops. Basic plant biotechnology techniques in recombinant DNA cloning, transformation, and tissue culture. May not be used for degree credit with PLNT 4933.
Credit hours: 3
Contact hours: Lecture: 2 Lab: 2 Contact: 4
Levels: Graduate
Schedule types: Lab, Lecture, Combined lecture and lab
Department/School: Plant & Soil Sciences

PLNT 6000 Doctoral Thesis
Prerequisites: Consent of adviser.
Description: Independent research to be conducted and reported with the supervision of a major professor as partial requirement for the PhD degree. Offered for variable credit, 1-6 credit hours, maximum of 36 credit hours.
Credit hours: 1-6
Contact hours: Contact: 1-6 Other: 1-6
Levels: Graduate
Schedule types: Independent Study
Department/School: Plant & Soil Sciences

PLNT 6010 Advanced Topics and Conference
Prerequisites: MS degree.
Description: Supervised study of advanced topics. A reading and conference course designed to acquaint the advanced student with fields not covered in other courses. Offered for variable credit, 1-6 credit hours, maximum of 12 credit hours.
Credit hours: 1-6
Contact hours: Contact: 1-6 Other: 1-6
Levels: Graduate
Schedule types: Independent Study
Department/School: Plant & Soil Sciences

PLNT 6410 Topics in Plant Breeding and Genetics
Prerequisites: Consent of instructor.
Description: Selected topics in the statistical and experimental analysis of quantitative traits, evolutionary development of domesticated plants and animals, and techniques used in breeding crop plants. Previously offered as AGRN 6410. Offered for variable credit, 1-3 credit hours, maximum of 6 credit hours.
Credit hours: 1-3
Contact hours: Contact: 1-3 Other: 1-3
Levels: Graduate
Schedule types: Independent Study
Department/School: Plant & Soil Sciences